

Safety Data Sheet

acc. to OSHA HCS

Printing date 10/08/2020

Reviewed on 10/08/2020

1 Identification

- **Product identifier**
- **Trade name:** DRISLIDE MULTI-PURPOSE DRY LUBRICANT- Aerosol Can
- **Application of the substance / the mixture** Lubricant
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
 Drislide N. America, Inc.
 1452 Delashmut Avenue
 Columbus, OH 43212
 Phone: (614) 291-6900 or (800) 231-6901

 Cortec Corporation
 4119 White Bear Parkway
 St. Paul, MN 55110 USA
 Phone (651) 429-1100
 Fax (651) 429-1122
- **Information department:** (614) 291-6900 or (800) 231-6901
- **Emergency telephone number:** 800-231-6901

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 Flame

Flam. Aerosol 1 H222 Extremely flammable aerosol.



GHS04 Gas cylinder

Press. Gas H280 Contains gas under pressure; may explode if heated.



GHS08 Health hazard

STOT RE 1 H372 Causes damage to the central nervous system through prolonged or repeated exposure.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

- **Label elements**

- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**



GHS02



GHS04



GHS08

- **Signal word** Danger

- **Hazard-determining components of labeling:**

Solvent naphtha (petroleum), medium aliph.

Distillates (petroleum), hydrotreated heavy naphthenic

(Contd. on page 2)

USA

Safety Data Sheet

acc. to OSHA HCS

Printing date 10/08/2020

Reviewed on 10/08/2020

Trade name: DRISLIDE MULTI-PURPOSE DRY LUBRICANT- Aerosol Can

(Contd. of page 1)

- **Hazard statements**

- H222 Extremely flammable aerosol.
- H280 Contains gas under pressure; may explode if heated.
- H372 Causes damage to the central nervous system through prolonged or repeated exposure.
- H304 May be fatal if swallowed and enters airways.

- **Precautionary statements**

- P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- P211 Do not spray on an open flame or other ignition source.
- P251 Pressurized container: Do not pierce or burn, even after use.
- P260 Do not breathe dust/fume/gas/mist/vapors/spray.
- P264 Wash thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P301+P310 If swallowed: Immediately call a poison center/doctor.
- P331 Do NOT induce vomiting.
- P314 Get medical advice/attention if you feel unwell.
- P405 Store locked up.
- P410+P403 Protect from sunlight. Store in a well-ventilated place.
- P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition/information on ingredients

- **Chemical characterization: Mixtures**

- **Description:** Mixture of the substances listed below with nonhazardous additions.

- **Dangerous components:**

64742-88-7	Solvent naphtha (petroleum), medium aliph.	25-50%
74-98-6	propane liquefied	10-25%
75-28-5	2-methylpropane	10-25%
64742-52-5	Distillates (petroleum), hydrotreated heavy naphthenic	2.5-10%

- **Additional information**

Molybdenum Disulfide is present at 2.5-10%

In accordance with paragraph (i) of the OSHA Hazard Communication Standard (29 CFR 1910.1200), the specific chemical identity and/or exact percentage composition has been withheld as a trade secret.

For the wording of the listed hazard phrases refer to section 16.

4 First-aid measures

- **Description of first aid measures**

- **After inhalation** Supply fresh air; consult doctor in case of complaints.

- **After skin contact**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

- **After eye contact**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- **After swallowing**

DO NOT induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. If affected person is fully conscious, give one glass of water to drink. Never give anything by mouth to an unconscious person. Get immediate medical attention.

(Contd. on page 3)

Safety Data Sheet

acc. to OSHA HCS

Printing date 10/08/2020

Reviewed on 10/08/2020

Trade name: DRISLIDE MULTI-PURPOSE DRY LUBRICANT- Aerosol Can

(Contd. of page 2)

- **Information for doctor** Show this safety data sheet to the doctor in attendance.
- **Most important symptoms and effects, both acute and delayed**
The symptoms and effects are as expected from the hazards shown in section 2. No specific product related symptoms are known.
No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

* 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture**
During heating or in case of fire poisonous gases are produced.
In certain fire conditions, traces of other toxic gases cannot be excluded.
- **Advice for firefighters** Self-contained breathing apparatus
- **Protective equipment:**
Wear self-contained respiratory protective device.
Wear fully protective suit.

* 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Mount respiratory protective device.



Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Keep away from ignition sources

- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
- **Reference to other sections**
See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

* 7 Handling and storage

- **Handling**
- **Precautions for safe handling**
Store in cool, dry place in tightly closed receptacles.
Ensure good ventilation/exhaustion at the workplace.

(Contd. on page 4)

USA

Safety Data Sheet

acc. to OSHA HCS

Printing date 10/08/2020

Reviewed on 10/08/2020

Trade name: DRISLIDE MULTI-PURPOSE DRY LUBRICANT- Aerosol Can

(Contd. of page 3)

- **Information about protection against explosions and fires:**



Keep ignition sources away - Do not smoke.

Protect from heat.

Keep respiratory protective device available.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights.

Do not pierce or burn, even after use.

Do not spray on a naked flame or any incandescent material.

Provide adequate precautions, such as electrical grounding and bonding.

- **Conditions for safe storage, including any incompatibilities**

- **Storage**

- **Requirements to be met by storerooms and receptacles:**

Store only in the original receptacle.

Observe official regulations on storing packagings with pressurized containers.

- **Information about storage in one common storage facility:**

Store away from foodstuffs.

Store away from oxidizing agents.

- **Further information about storage conditions:**

Keep receptacle tightly sealed.

Protect from heat and direct sunlight.

- **Storage class 2 B**

- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

- **Control parameters**

- **Components with limit values that require monitoring at the workplace:**

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

74-98-6 propane liquefied (10-25%)

PEL	Long-term value: 1800 mg/m ³ , 1000 ppm
REL	Long-term value: 1800 mg/m ³ , 1000 ppm
TLV	refer to Appendix F in TLVs&BEIs book; D, EX

75-28-5 2-methylpropane (10-25%)

TLV	Short-term value: 2370 mg/m ³ , 1000 ppm (EX)
-----	---

- **Additional information:** The lists that were valid during the creation were used as basis.

- **Exposure controls** Use local exhaust ventilation to control airborne concentrations below exposure limits.

- **Personal protective equipment**

- **General protective and hygienic measures**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Store protective clothing separately.

(Contd. on page 5)

Safety Data Sheet

acc. to OSHA HCS

Printing date 10/08/2020

Reviewed on 10/08/2020

Trade name: DRISLIDE MULTI-PURPOSE DRY LUBRICANT- Aerosol Can

(Contd. of page 4)

· **Breathing equipment:**



Use suitable respiratory protective device in case of insufficient ventilation.

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). To determine the appropriate type of respiratory protection that should be used, a hazard assessment should be performed prior to using the product. Environmental conditions such as ventilation and other contaminants may affect the type of respiratory protection that is chosen.

· **Protection of hands:**

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Protective Gloves I.E.**, Nitrile, Viton, Neoprine

· **Eye protection:** Tightly sealed goggles.

· **Body protection:** Protective work clothing.

9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

· **Form:** Aerosol

· **Color:** Black

· **Odor:** Solvent-like

· **Odor threshold:** Not determined.

· **pH-value:** Not determined.

· **Change in condition**

· **Melting point/Melting range:** undetermined

· **Boiling point/Boiling range:** -44 °C (-47.2 °F) (*)

· **Flash point:** -97 °C (-142.6 °F)

· **Flammability (solid, gaseous)** Not applicable.

· **Ignition temperature:** 265 °C (509 °F) (*)

· **Decomposition temperature:** Not determined.

· **Auto igniting:** Product is not selfigniting.

· **Danger of explosion:** Not determined.

· **Explosion limits:**

· **Lower:** 0.6 Vol % (*)

· **Upper:** 10.9 Vol % (*)

· **Vapor pressure at 20 °C (68 °F):** 8,300 hPa (6.200 mm Hg) (*)

· **Density at 20 °C (68 °F):** 0.7-1 g/cm³ (5.8-8.3 lbs/gal)

· **Relative density** Not determined.

· **Vapor density** Not determined.

(Contd. on page 6)

Safety Data Sheet

acc. to OSHA HCS

Printing date 10/08/2020

Reviewed on 10/08/2020

Trade name: DRISLIDE MULTI-PURPOSE DRY LUBRICANT- Aerosol Can

(Contd. of page 5)

· Evaporation rate	Not applicable.
· Solubility in / Miscibility with Water:	Not miscible or difficult to mix
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
dynamic:	Not determined.
kinematic:	Not determined.
· Other information	VOC: 0.66 g/cm ³ (5.53 lbs/gal) The above data are typical values and do not constitute a specification. *Properties have been calculated.

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability** Stable under recommended storage conditions
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known
- **Conditions to avoid**
Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.
High temperatures, sparks, and open flames.
- **Incompatible materials:**
oxidizing agents
potassium nitrate
hydrogen peroxide
- **Hazardous decomposition products:**
Carbon monoxide
Carbon dioxide
Sulfur dioxide
molybdenum trioxide

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

64742-88-7 Solvent naphtha (petroleum), medium aliph.

Oral	LD50	>6,500 mg/kg (rat)
Dermal	LD50	>3,000 mg/kg (rabbit)
Inhalative	LC50/4 h	>14 mg/l (rat)

- **Primary irritant effect:**
- **on the skin:** Repeated or prolonged skin contact with this product may produce skin irritation.
- **on the eye:** May be irritating.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

(Contd. on page 7)

USA

Safety Data Sheet

acc. to OSHA HCS

Printing date 10/08/2020

Reviewed on 10/08/2020

Trade name: DRISLIDE MULTI-PURPOSE DRY LUBRICANT- Aerosol Can

(Contd. of page 6)

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**

IARC Category 3 : Not classifiable as to its carcinogenicity to humans

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

12 Ecological information

· **Toxicity**

· **Aquatic toxicity:** No further relevant information available.

· **Persistence and degradability** No further relevant information available.

· **Behavior in environmental systems:**

· **Bioaccumulative potential** No further relevant information available.

· **Mobility in soil** No further relevant information available.

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **Other adverse effects** No further relevant information available.

13 Disposal considerations

· **Waste treatment methods**

· **Recommendation** Dispose of in accordance with local, state, and federal regulations.

· **Uncleaned packagings:**

· **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· **UN-Number**

· **DOT, ADR, IMDG, IATA** UN1950

· **UN proper shipping name**

· **DOT** Aerosols, flammable

· **ADR** 1950 AEROSOLS

· **IMDG** AEROSOLS

· **IATA** AEROSOLS, flammable

· **Transport hazard class(es)**

· **DOT**



· **Class**

2.1

(Contd. on page 8)

Safety Data Sheet

acc. to OSHA HCS

Printing date 10/08/2020

Reviewed on 10/08/2020

Trade name: DRISLIDE MULTI-PURPOSE DRY LUBRICANT- Aerosol Can

(Contd. of page 7)

· **Label** 2.1

· **ADR**



· **Class** 2.5F Gases
 · **Label** 2.1

· **IMDG, IATA**



· **Class** 2.1
 · **Label** 2.1

· **Packing group**
 · **DOT, ADR, IMDG, IATA** not classified as dangerous goods

· **Environmental hazards:** Not applicable.

· **Special precautions for user** Warning: Gases
 · **Hazard identification number (Kemler code):** -
 · **EMS Number:** F-D,S-U
 · **Stowage Code** SW1 Protected from sources of heat.
 SW2 Clear of living quarters.
 · **Segregation Code** SG69 For AEROSOLS with a maximum capacity of 1 litre:
 Segregation as for class 9. Stow "separated from" class 1 except for division 1.4.
 For AEROSOLS with a capacity above 1 litre:
 Segregation as for the appropriate subdivision of class 2.
 For WASTE AEROSOLS:
 Segregation as for the appropriate subdivision of class 2.

· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

· **Transport/Additional information:**

· **ADR**
 · **Excepted quantities (EQ)** Code: E0
 Not permitted as Excepted Quantity

· **IMDG**
 · **Limited quantities (LQ)** 1L
 · **Excepted quantities (EQ)** Code: E0
 Not permitted as Excepted Quantity

· **UN "Model Regulation":** UN 1950 AEROSOLS, 2.1

USA

(Contd. on page 9)

Safety Data Sheet

acc. to OSHA HCS

Printing date 10/08/2020

Reviewed on 10/08/2020

Trade name: DRISLIDE MULTI-PURPOSE DRY LUBRICANT- Aerosol Can

(Contd. of page 8)

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **Sara**

· **SARA Section 355 (extremely hazardous substances)**

None of the ingredients is listed.

· **SARA Section 313 (specific toxic chemical listings)**

None of the ingredients is listed.

· **TSCA (Toxic Substances Control Act)**

All ingredients are listed.

· **Hazardous Air Pollutants**

None of the ingredients is listed.

· **Proposition 65**

· **Prop 65 - Chemicals known to cause cancer**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity**

None of the ingredients is listed.

· **Carcinogenicity categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **Canadian Domestic Substances List (DSL): (Substances not listed)**

All ingredients are listed.

· **Philippines Inventory of Chemicals and Chemical Substances: (Substances not listed)**

All ingredients are listed.

· **Chinese Chemical Inventory of Existing Chemical Substances: (Substances not listed)**

All ingredients are listed.

· **Australian Inventory of Chemical Substances**

All ingredients are listed.

· **New Zealand Inventory of Chemicals: (Substances not listed)**

All ingredients are listed.

· **Existing Chemical Substances**

propane liquefied

2-3

2-methylpropane

2-4

Distillates (petroleum), hydrotreated heavy naphthenic

· **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

(Contd. on page 10)

USA

Safety Data Sheet

acc. to OSHA HCS

Printing date 10/08/2020

Reviewed on 10/08/2020

Trade name: DRISLIDE MULTI-PURPOSE DRY LUBRICANT- Aerosol Can

(Contd. of page 9)

· Hazard pictograms


GHS02 GHS04 GHS08

· Signal word Danger

· Hazard-determining components of labeling:

Solvent naphtha (petroleum), medium aliph.
Distillates (petroleum), hydrotreated heavy naphthenic

· Hazard statements

H222 Extremely flammable aerosol.
H280 Contains gas under pressure; may explode if heated.
H372 Causes damage to the central nervous system through prolonged or repeated exposure.
H304 May be fatal if swallowed and enters airways.

· Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Pressurized container: Do not pierce or burn, even after use.
P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P264 Wash thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P301+P310 If swallowed: Immediately call a poison center/doctor.
P331 Do NOT induce vomiting.
P314 Get medical advice/attention if you feel unwell.
P405 Store locked up.
P410+P403 Protect from sunlight. Store in a well-ventilated place.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Date of preparation / last revision 10/08/2020 / -

· Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Flam. Aerosol 1: Aerosols – Category 1

(Contd. on page 11)

USA

Safety Data Sheet

acc. to OSHA HCS

Printing date 10/08/2020

Reviewed on 10/08/2020

Trade name: DRISLIDE MULTI-PURPOSE DRY LUBRICANT- Aerosol Can

(Contd. of page 10)

Press. Gas: Gases under pressure – Compressed gas
STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1
Asp. Tox. 1: Aspiration hazard – Category 1

. * Data compared to the previous version altered.

USA